



Department of Civil Engineering

Academic Year 2022– 202. (Odd Semester)

Degree, Semester & Branch: V Semester B.E EEE

Course Code & Title: OCE551 & Air Pollution and Control Engineering

Name of the Faculty member (s): Mr.V.Ragavan

Innovative Practice Description

Unit / Topic: Unit II / Wind Profile and Plume stack Patterns

- Course Outcome: CO2
- Topic Learning Outcome: TLO4,TLO5,TLO6
- Activity Chosen: Visible Quiz
- Justification:

The concepts related to Wind Profile and Plume stack Patterns are very important. In order to assess the understanding level of the students, visible quiz activity was conducted.

- Time Allotted for the Activity: 10 minutes
- Details of the Implementation:
 - Initially, 10 questions covering Wind Profile and Plume stack Patterns was taken and prepared in a power point presentation.
 - The students were split into a group of six members (class strength: 34). 06 groups were formed and each member of the group were given with a card containing A, B, C, D.
 - Each group was provided with a paper to write down the answer for each question.
 - Once the question is displayed one by one. The group member should raise the correct option card for the question.
 - The other member will write the team answer in the paper given. Finally, the paper was interchanged with the group and discussed the correct answers.

- CO – PO / PSO mapping:

CO	PO1	PO2	PO6	PO7	PSO4
CO3	3	2	2	2	1

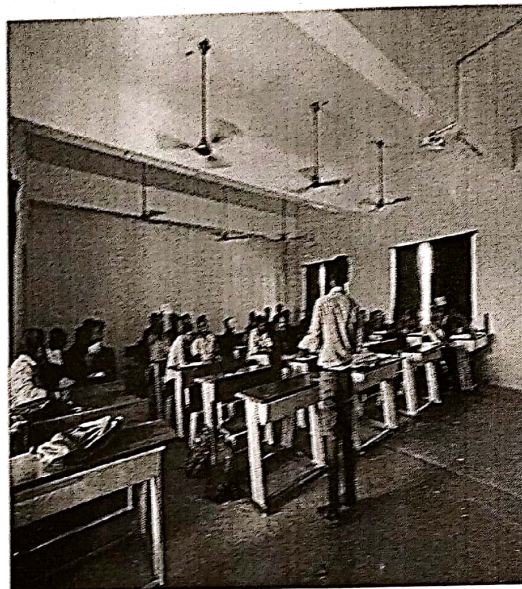
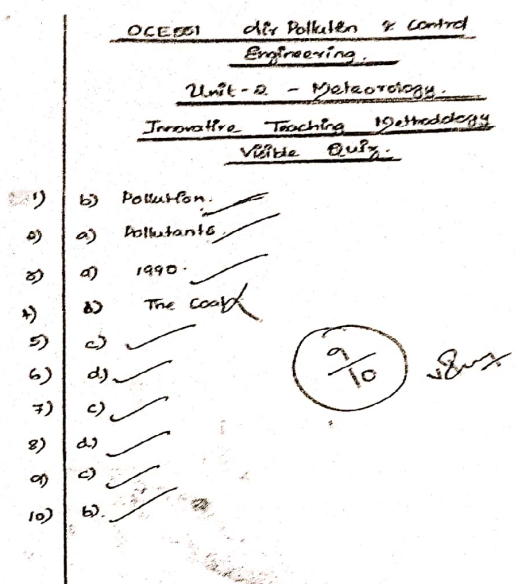
(1 – Low 2 – Moderate 3 – High)

- PO / PSO mapped:

Innovative practice	PO1	PO2	PO6	PO7	PSO4
Justification for correlation	Students will be getting Meteorological knowledge which is very	Dispersion of air pollutant will be estimated using	Meteorological factors affect the atmosphere and also create the problem to	Students can able to understand the environmental impacts and giving	Predicting the rate of air pollution emitted from industry with the help of

	essential to aware the impact of air pollution.	mathematical principles.	human health, societal.	solutions due to air pollutants in atmosphere.	mechanical devices.
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• Images / Screenshot of the practice:



• Reflective Critique:

• **Feedback of practice from students and other stakeholders:**

The students felt easy to remember and recollect the concepts involved in the given topic which will make them to attend the questions under this topic in Internal Assessment Test.

• **Benefit of the practice:** (E.g.: Outcome attainment would have increased due to innovative practice over conventional practice)

- This activity helped to quickly recap the important fundamental knowledge about Wind Profile and Plume stack Patterns.
- Visible quiz is a team-based activity which supports collaborative learning through which the concepts will be made clear.

• **Challenges faced in implementation:**

- This activity was planned for 10 minutes but it took 15 minutes for completing the discussion.
- The highest mark obtained by the group is 12/13.

References:

M.N. Rao and HVN Rao, "Air Pollution", Tata MCgraw Hill Publishing Company limited 2007

V. Purj
Signature of Faculty Member

[Signature]
HOD